

#3



Sub
BB3

SEQUENCE LISTING

<110> Kim, Jin-Soo
Kwon, Young Do
Kim, Hyun-Won
Ryu, Eun-Hyun
Hwang, Moon-Sun

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<141> 2001-02-16

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 Ser Cys Asp Arg Arg Phe Ser Arg Ser Asp Glu Leu Thr Arg His Ile
 10 15 20 25

cgc atc cac act ggc cag aag ccc ttc cag tgt cga atc tgc atg cgt 147
 Arg Ile His Thr Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg
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aac ttc agt cgt agt gac cac ctt acc acc cac atc cgg acc cac acc 195
 Asn Phe Ser Arg Ser Asp His Leu Thr Thr His Ile Arg Thr His Thr
 45 50 55

ggc gag aag cct ttt gcc tgt gac att tgt ggg agg aag ttt gcc agg 243

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Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg
 60 65 70

agt gat gaa cgc aag agg cat acc aaa atc cat tta aga cag aag gat 291
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 35 40 45
 Leu Thr Thr His Ile Arg Thr His Thr Gly Glu Lys Pro Phe Ala Cys
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tgt ccc tca aac ctt cga agg cat gga agg act cac acc ggc gag aaa 96
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agt ggt tca aac ttc act cga cat cag aga att cac acc ggt gaa aag 96
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 20 25 30

ccg cgg 102
 Pro Arg

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 <212> PRT
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 Pro Arg

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 1 5 10 15

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 Phe Ala Arg Ser Asp Glu Leu Asn Arg His Lys Lys Arg His Thr Gly
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gaa aga ccg cgg 108
 Glu Arg Pro Arg
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<400> 29
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FOUO-22958260

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1 5 10 15				
caa aat tca act ctc aga gta cac cag aga att cac acc ggc gaa aag				96
Gln Asn Ser Thr Leu Arg Val His Gln Arg Ile His Thr Gly Glu Lys				
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Pro Arg				
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gtg agc tca acc ctt att aga cat cag aga atc cac acc ggc gag aga				96
Val Ser Ser Thr Leu Ile Arg His Gln Arg Ile His Thr Gly Glu Arg				
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ccg cgg
Pro Arg

102

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<400> 33
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Val Ser Ser Thr Leu Ile Arg His Gln Arg Ile His Thr Gly Glu Arg
20 25 30
Pro Arg

<210> 34
<211> 69
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cac agg cac cag aga acg cac 69
His Arg His Gln Arg Thr His
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<211> 23
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<213> Homo sapiens

<400> 35
Tyr Gln Cys Asn Ile Cys Gly Lys Cys Phe Ser Cys Asn Ser Asn Leu
1 5 10 15
His Arg His Gln Arg Thr His
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FOUO: 2255260

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 Arg Arg His Glu Lys Thr His
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<210> 37
 <211> 23
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 <213> Homo sapiens

<400> 37
 Tyr Ala Cys His Leu Cys Gly Lys Ala Phe Thr Gln Ser Ser His Leu
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 Arg Arg His Glu Lys Thr His
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<210> 38
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 Tyr Lys Cys Gly Gln Cys Gly Lys Phe Tyr Ser Gln Val Ser His Leu
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acc cgc cac cag aaa atc cac 69
 Thr Arg His Gln Lys Ile His
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<210> 39
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 atc aga cac cag agg acg cac 69
 Ile Arg His Gln Arg Thr His
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 att gta cat cag aga aca cac 69
 Ile Val His Gln Arg Thr His
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Thr Val His Gln Lys Ile His
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att gta cat aag aga att cat      69
Ile Val His Lys Arg Ile His
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 Gly Val His Gln Arg Thr His
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<211> 23

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<213> Homo sapiens

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 Gly Arg His Lys Arg Thr His
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 Tyr Lys Cys Glu Glu Cys Gly Lys Ala Phe Asn Gln Ser Ser Thr Leu
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act aga cat aag ata gtt cat 69
 Thr Arg His Lys Ile Val His
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FOUO = EESAD

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<222> 19

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<211> 28

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<223> Xaa = hydrophobic residue

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<223> Xaa = Phe or Tyr

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<222> 19

<223> Xaa = hydrophobic residue

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 <223> Xaa = Phe or Tyr

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 <223> Xaa = Ser or Thr

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 <222> 19
 <223> Xaa = hydrophobic residue

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 20 25

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FOUO: 22953250

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 <212> DNA
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 or A

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 gcgtccggac ncayacnggn sara

24

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 <223> primer for PCR

<221> misc_feature
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 A or T; y = T or C

<400> 82
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24

<210> 83
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 <213> Artificial Sequence

FOUO 2003060

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<223> amino acid motif

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<221> VARIANT
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<223> Xaa = Lys or Arg

<221> VARIANT
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<223> Xaa = Tyr or Phe

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His Thr Gly Xaa Xaa Pro Xaa
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<212> DNA
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atcttctatc acaag 75

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<223> synthetic probe for gel shift assay

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24

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<223> synthetic probe for gel shift assay

<400> 100

ccgggtcgga catgggcggt accg

24

<210> 101

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic probe for gel shift assay

20250326


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<210> 109
<211> 66
<212> DNA
<213> Artificial Sequence
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aat gtg cac aaa aga act cac 69
Asn Val His Lys Arg Thr His

```
<210> 113
<211> 23
<212> PRT
<213> Homo sapiens
```

```
<210> 114
<211> 69
<212> DNA
<213> Homo sapiens
```

```

<400> 114
tac atg tgc agt gag tgt ggg cga ggc ttc agc cag aag tca aac ctc      48
Tyr Met Cys Ser Glu Cys Gly Arg Gly Phe Ser Gln Lys Ser Asn Leu
  1             5             10             15

atc ata cac cag agg aca cac      69
Ile Ile His Gln Arg Thr His
      20

```

```
<210> 115
<211> 23
<212> PRT
<213> Homo sapiens
```

```
<400> 115
Tyr Met Cys Ser Glu Cys Gly Arg Gly Phe Ser Gln Lys Ser Asn Leu
   1                   5               10              15
Ile Ile His Gln Arg Thr His
      20
```

```
<210> 116
<211> 69
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> CDS
<222> (1) ... (69)
```

```

<400> 116
tat gaa tgt gaa aaa tgt ggc aaa gct ttt aac cag tcc tca aat ctt      48
Tyr Glu Cys Glu Lys Cys Gly Lys Ala Phe Asn Gln Ser Ser Asn Leu
      1              5              10              15

```


act aga cat aag aaa agt cat
 Thr Arg His Lys Lys Ser His
 20

69

<210> 117
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 117
 Tyr Glu Cys Glu Lys Cys Gly Lys Ala Phe Asn Gln Ser Ser Asn Leu
 1 5 10 15
 Thr Arg His Lys Lys Ser His
 20

<210> 118
 <211> 69
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)...(69)

<400> 118
 tat gag tgc aat gaa tgt ggg aag ttt ttt agc cag agc tcc agc ctc
 Tyr Glu Cys Asn Glu Cys Gly Lys Phe Phe Ser Gln Ser Ser Ser Leu
 1 5 10 15

48

att aga cat agg aga agt cac
 Ile Arg His Arg Arg Ser His
 20

69

<210> 119
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 119
 Tyr Glu Cys Asn Glu Cys Gly Lys Phe Phe Ser Gln Ser Ser Ser Leu
 1 5 10 15
 Ile Arg His Arg Arg Ser His
 20

<210> 120
 <211> 69
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)...(69)

<400> 120

FOUO:ESSB260

<220>
<221> CDS

```
<210> 128
<211> 75
<212> DNA
<213> Homo sapiens
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<222> (1) ... (75)

tac	aga	tgc	tca	tgg	gaa	ggg	tgt	gag	tgg	cgt	ttt	gca	aga	agt	gat	48
Tyr	Arg	Cys	Ser	Trp	Glu	Gly	Cys	Glu	Trp	Arg	Phe	Ala	Arg	Ser	Asp	.
1				5					10					15		

gag tta acc agg cac ttc cga aag cac 75
Glu Leu Thr Arg His Phe Arg Lys His
20 25

<213> Homo sapiens

Tyr Arg Cys Ser Trp Glu Gly Cys Glu Trp Arg Phe Ala Arg Ser Asp
1 5 10 15
Glu Leu Thr Arg His Phe Arg Lys His
20 25

<213> Homo sapiens

<222> (1) ... (75)

ttc	agc	tgt	agc	tgg	aaa	ggt	tgt	gaa	agg	agg	ttt	gcc	cgt	tct	gat	48
Phe	Ser	Cys	Ser	Trp	Lys	Gly	Cys	Glu	Arg	Arg	Phe	Ala	Arg	Ser	Asp	
1				5				10					15			

gaa ctg tcc aga cac agg cga acc cac 75
Glu Leu Ser Arg His Arg Arg Thr His
20 25

<213> Homo sapiens

Phe Ser Cys Ser Trp Lys Gly Cys Glu Arg Arg Phe Ala Arg Ser Asp
1 5 10 15
Glu Leu Ser Arg His Arg Arg Thr His
20 25

<210> 132

```

<400> 135
Tyr His Cys Asn Trp Asp Gly Cys Gly Trp Lys Phe Ala Arg Ser Asp
 1             5             10             15
Glu Leu Thr Arg His Tyr Arg Lys His

```

25

```
<220>  
<221> CDS  
<222> (1) ... (72)
```

```
<210> 137
<211> 24
<212> PRT
<213> Homo sapiens
```

```
<210> 138
<211> 78
<212> DNA
<213> Artificial Sequence
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<400> 138
tgtcgaatct gcatgcgtaa cttcagtcgt agtgaccacc ttaccaccca catccggacc 60
cacactggcc agaaacccc                                     78
```

<220>
<223> primer for PCR

<210> 140

```
<400> 143
Phe Ala Cys Glu Val Cys Gly Val Arg Phe Thr Arg Asn Asp Lys Leu
  1             5             10             15
Lys Ile His Met Arg Lys His
```

```
<210> 144
<211> 75
<212> DNA
<213> Homo sapiens
```

```

<400> 144
tat gta tgc gat gta gag gga tgt acg tgg aaa ttt gcc cgc tca gat      48
Tyr Val Cys Asp Val Glu Gly Cys Thr Trp Lys Phe Ala Arg Ser Asp
  1                      5                      10                      15

aag ctc aac aga cac aag aaa agg cac      75
Lys Leu Asn Arg His Lys Lys Arg His
      20                      25

```

```

<400> 145
Tyr Val Cys Asp Val Glu Gly Cys Thr Trp Lys Phe Ala Arg Ser Asp
 1           5           10           15
Lys Leu Asn Arg His Lys Lys Arg His
      20           25

```

```
<220>  
<221> CDS  
<222> (1) ... (69)
```

<400> 146																
tat	att	tgc	aga	aag	tgt	gga	cgg	ggc	ttt	agt	cgg	aag	tcc	aac	ctt	48
Tyr	Ile	Cys	Arg	Lys	Cys	Gly	Arg	Gly	Phe	Ser	Arg	Lys	Ser	Asn	Leu	
1				5					10					15		
atc	aga	cat	cag	agg	aca	cac										69
Ile	Arg	His	Gln	Arg	Thr	His										
			20													

<400> 147

Tyr Ile Cys Arg Lys Cys Gly Arg Gly Phe Ser Arg Lys Ser Asn Leu
 1 5 10 15
 Ile Arg His Gln Arg Thr His
 20

<210> 148
 <211> 69
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)...(69)

<400> 148
 tat cta tgt agt gag tgt gac aaa tgc ttc agt aga agt aca aac ctc 48
 Tyr Leu Cys Ser Glu Cys Asp Lys Cys Phe Ser Arg Ser Thr Asn Leu
 1 5 10 15

ata agg cat cga aga act cac 69
 Ile Arg His Arg Arg Thr His
 20

<210> 149
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 149
 Tyr Leu Cys Ser Glu Cys Asp Lys Cys Phe Ser Arg Ser Thr Asn Leu
 1 5 10 15
 Ile Arg His Arg Arg Thr His
 20

<210> 150
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> purified polypeptide

<221> VARIANT
 <222> 1, 13
 <223> Xaa = Phe or Tyr

<221> VARIANT
 <222> (1)...(28)
 <223> Xaa = any amino acid

<221> VARIANT
 <222> 19
 <223> Xaa = hydrophobic residue

<400> 150
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Gln Xaa

Feature = e33460

<210> 153

<211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
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<221> VARIANT
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 <223> Xaa = Phe or Tyr

<221> VARIANT
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 <223> Xaa = any amino acid

<221> VARIANT
 <222> 19
 <223> Xaa = hydrophobic residue

<400> 153
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Gln Xaa
 1 5 10 15
 Ser His Xaa Xaa Val His Xaa Xaa Xaa Xaa Xaa His
 20 25

<210> 154
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
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<221> VARIANT
 <222> 1, 13
 <223> Xaa = Phe or Tyr

<221> VARIANT
 <222> (1)...(28)
 <223> Xaa = any amino acid

<221> VARIANT
 <222> 19
 <223> Xaa = hydrophobic residue

<400> 154
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Gln Xaa
 1 5 10 15
 Ser Asn Xaa Xaa Ile His Xaa Xaa Xaa Xaa Xaa His
 20 25

<210> 155
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>

FOOTNOTES

<223> purified polypeptide

<221> VARIANT

<222> 1, 13

<223> Xaa = Phe or Tyr

<221> VARIANT

<222> (1)...(28)

<223> Xaa = any amino acid

<221> VARIANT

<222> 19

<223> Xaa = hydrophobic residue

<400> 155

Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Gln	Xaa
1				5				10						15	
Ser	Asn	Xaa	Xaa	Arg	His	Xaa	Xaa	Xaa	Xaa	Xaa	His				
				20				25							

<210> 156

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> purified polypeptide

<221> VARIANT

<222> 1, 13

<223> Xaa = Phe or Tyr

<221> VARIANT

<222> (1)...(28)

<223> Xaa = any amino acid

<221> VARIANT

<222> 19

<223> Xaa = hydrophobic residue

<400> 156

Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Cys	Xaa	Xaa	Xaa	Xaa	Xaa	Gln	Xaa
1				5				10						15	
Thr	His	Xaa	Xaa	Gln	His	Xaa	Xaa	Xaa	Xaa	Xaa	His				
				20				25							

<210> 157

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> purified polypeptide

<221> VARIANT

<222> (1)...(26)

<223> Xaa = any amino acid

FOUO:EESS460

<223> Xaa = Phe or Tyr

<223> Xaa = hydrophobic residue

Xaa Xaa Arg His Xaa Xaa Xaa Xaa Xaa His
20 25

<213> Artificial Sequence

<223> purified polypeptide

<223> Xaa = Phe or Tyr

<223> Xaa = any amino acid

<223> Xaa = hydrophobic residue

Asp Lys Xaa Xaa Ile His Xaa Xaa Xaa Xaa Xaa His
20 25

<213> Artificial Sequence

<223> purified polypeptide

<223> Xaa = Phe or Tyr

<223> Xaa = any amino acid

<221> VARIANT
 <222> 19
 <223> Xaa = hydrophobic residue

<400> 159
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Arg Xaa
 1 5 10 15
 Ser Asn Xaa Xaa Arg His Xaa Xaa Xaa Xaa Xaa His
 20 25

<210> 160
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
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<221> VARIANT
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 <223> Xaa = Phe or Tyr

<221> VARIANT
 <222> (1)...(28)
 <223> Xaa = any amino acid

<221> VARIANT
 <222> 19
 <223> Xaa = hydrophobic residue

<400> 160
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Arg Xaa
 1 5 10 15
 Thr Asn Xaa Xaa Arg His Xaa Xaa Xaa Xaa Xaa His
 20 25

<210> 161
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
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<221> VARIANT
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 <223> Xaa = Phe or Tyr

<221> VARIANT
 <222> (1)...(28)
 <223> Xaa = any amino acid

<221> VARIANT
 <222> 19
 <223> Xaa = hydrophobic residue

<400> 161

FOUO-2293430

Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Gln Xaa
 1 5 10 15
 Gly Asn Xaa Xaa Arg His Xaa Xaa Xaa Xaa Xaa His
 20 25

<210> 162
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 <213> Artificial Sequence

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 <223> Xaa = Phe or Tyr

<221> VARIANT
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 <223> Xaa = any amino acid

<221> VARIANT
 <222> 19
 <223> Xaa = hydrophobic residue

<400> 162
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Arg Xaa
 1 5 10 15
 Asp Glu Xaa Xaa Arg His Xaa Xaa Xaa Xaa Xaa His
 20 25

<210> 163
 <211> 28
 <212> PRT
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<221> VARIANT
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 <223> Xaa = any amino acid

<221> VARIANT
 <222> 19
 <223> Xaa = hydrophobic residue

<400> 163
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Arg Xaa
 1 5 10 15
 Asp His Xaa Xaa Arg His Xaa Xaa Xaa Xaa Xaa His
 20 25

FOUO: 2253260

<210> 164
 <211> 28
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 <223> Xaa = Phe or Tyr

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 <223> Xaa = any amino acid

<221> VARIANT
 <222> 19
 <223> Xaa = hydrophobic residue

<400> 164
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Arg Xaa
 1 5 10 15
 Asp His Xaa Xaa Thr His Xaa Xaa Xaa Xaa Xaa His
 20 25

<210> 165
 <211> 28
 <212> PRT
 <213> Artificial Sequence

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 <223> Xaa = Phe or Tyr

<221> VARIANT
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 <223> Xaa = any amino acid

<221> VARIANT
 <222> 19
 <223> Xaa = hydrophobic residue

<400> 165
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Arg Xaa
 1 5 10 15
 Asp Lys Xaa Xaa Arg His Xaa Xaa Xaa Xaa Xaa His
 20 25

<210> 166
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 <212> PRT
 <213> Artificial Sequence

TOU-10-2253260

<220>

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<223> Xaa = Phe or Tyr

<221> VARIANT

<222> (1)...(28)

<223> Xaa = any amino acid

<221> VARIANT

<222> 19

<223> Xaa = hydrophobic residue

<400> 166

Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Arg Xaa

1

5

10

15

Ser His Xaa Xaa Arg His Xaa Xaa Xaa Xaa Xaa His

20

25

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